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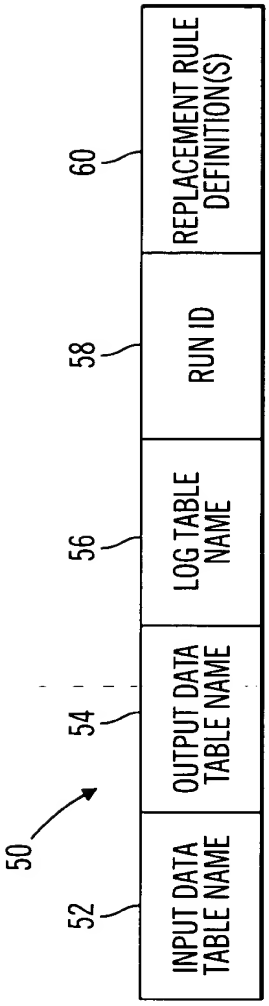

FIG. 2

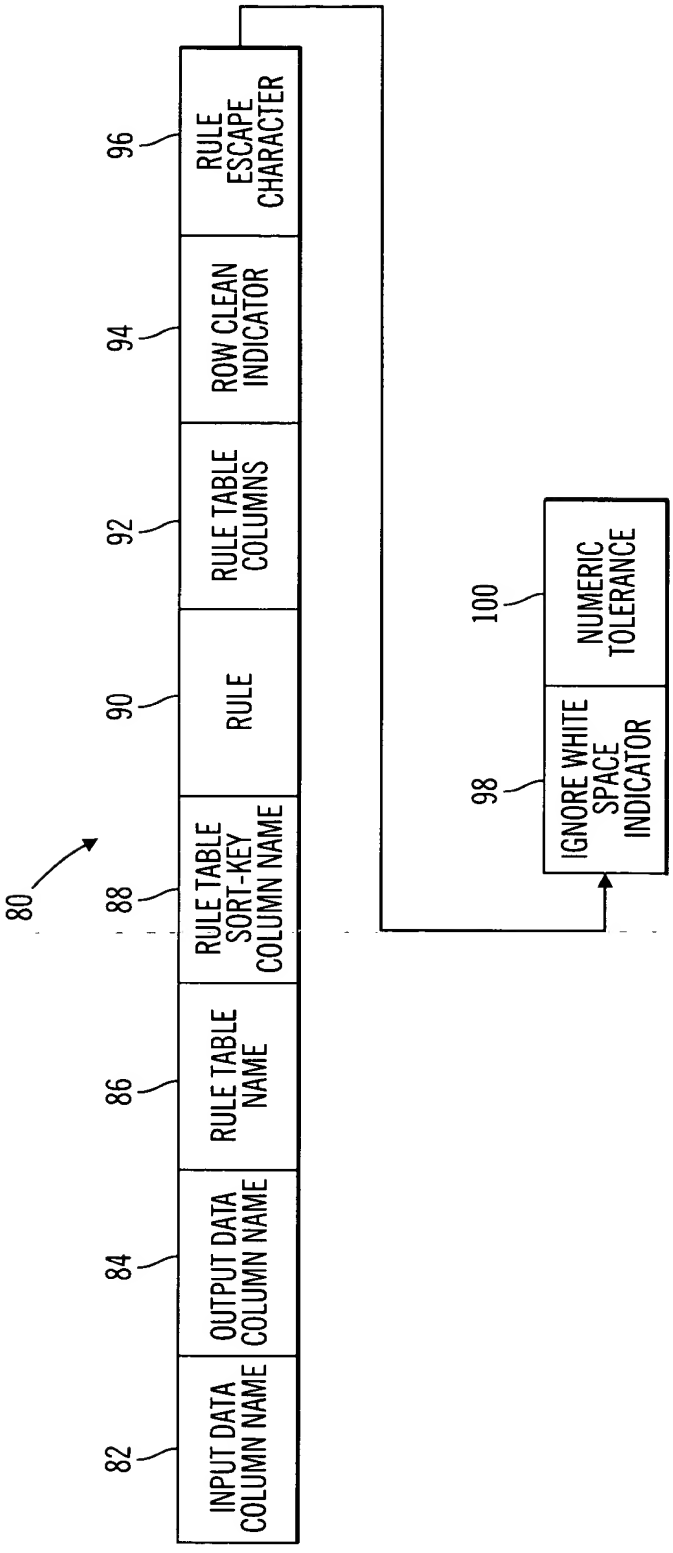

FIG. 3

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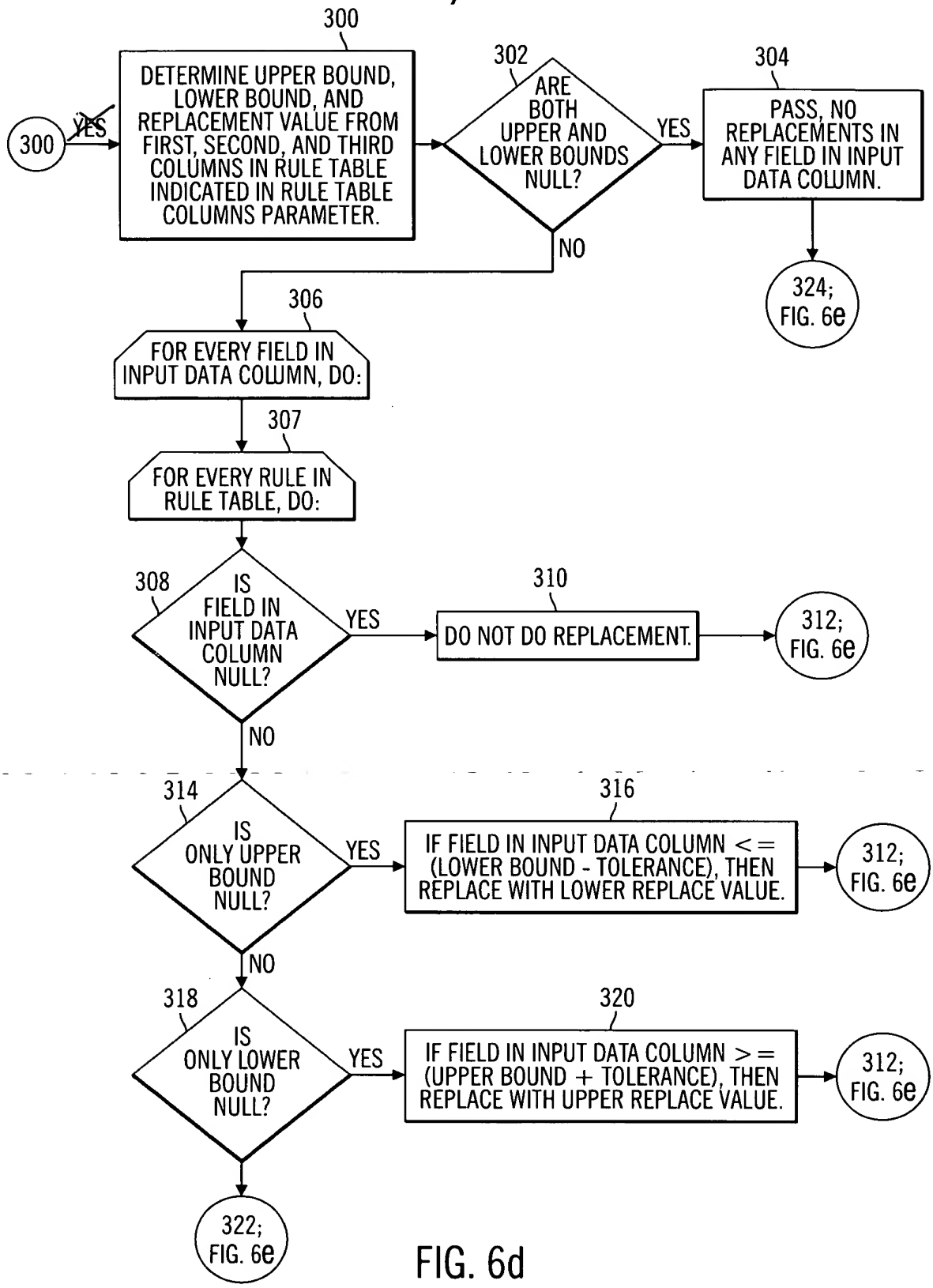

FIG. 6d

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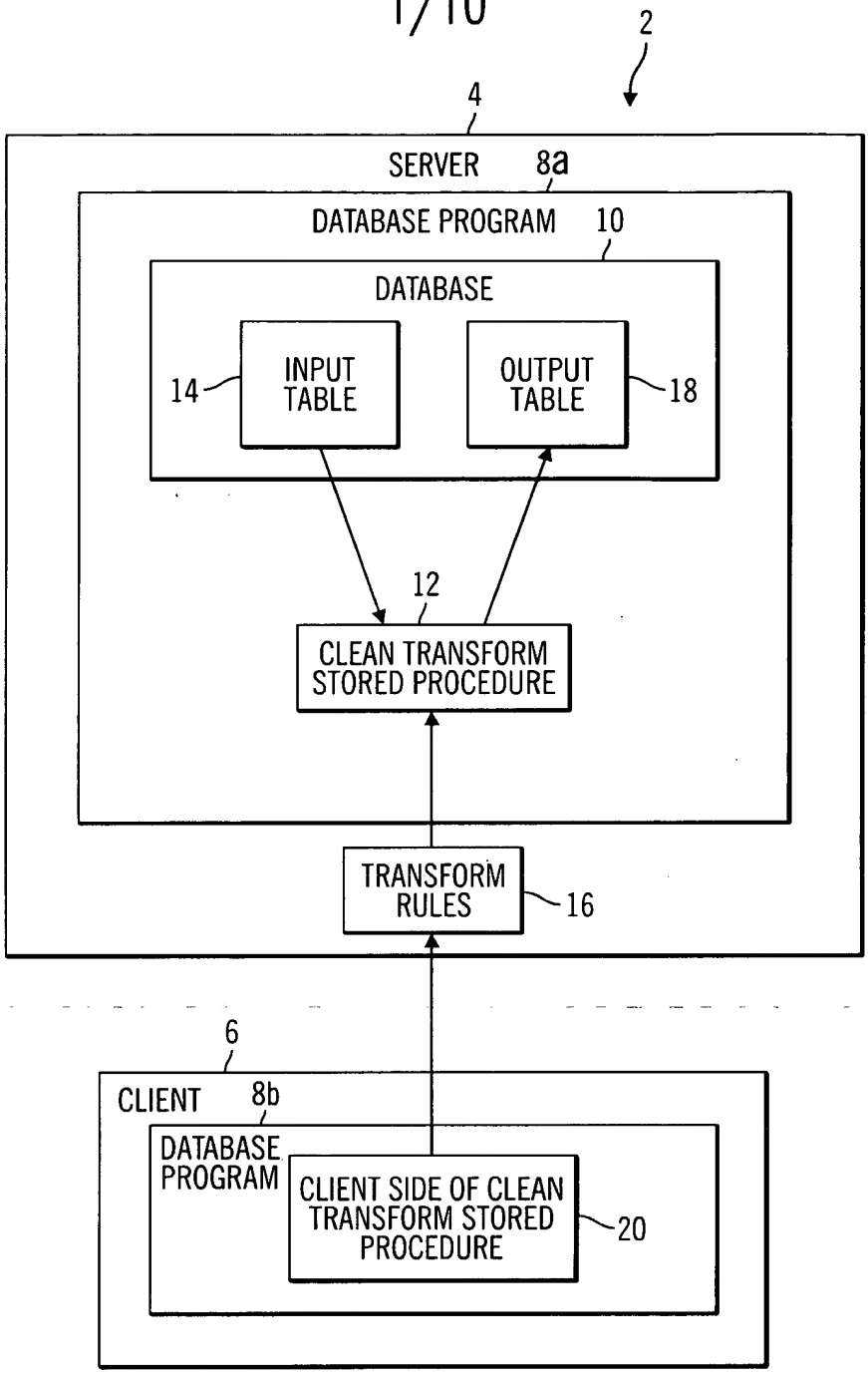

FIG. 1

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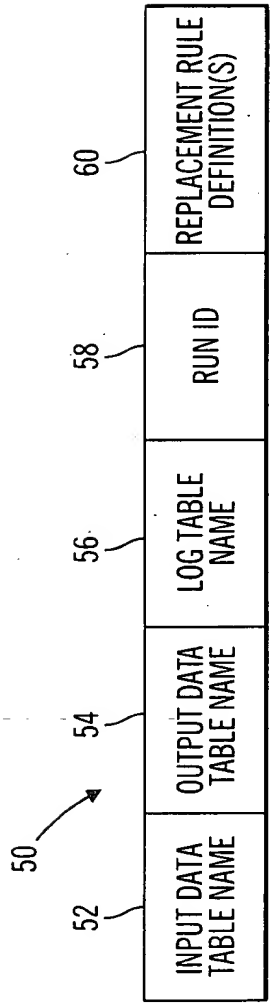

FIG. 2

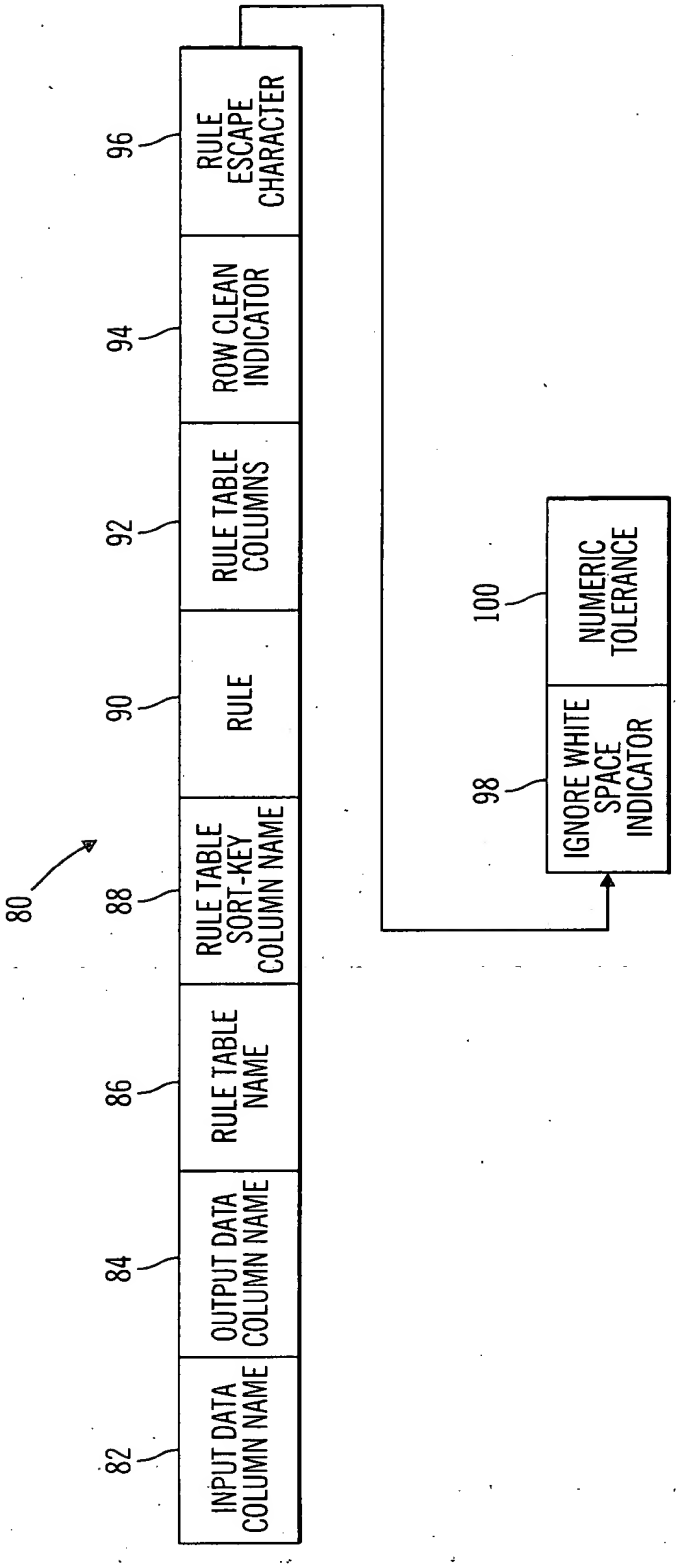

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FIG. 3a

FIG. 3b

FIG. 4

FIG. 5

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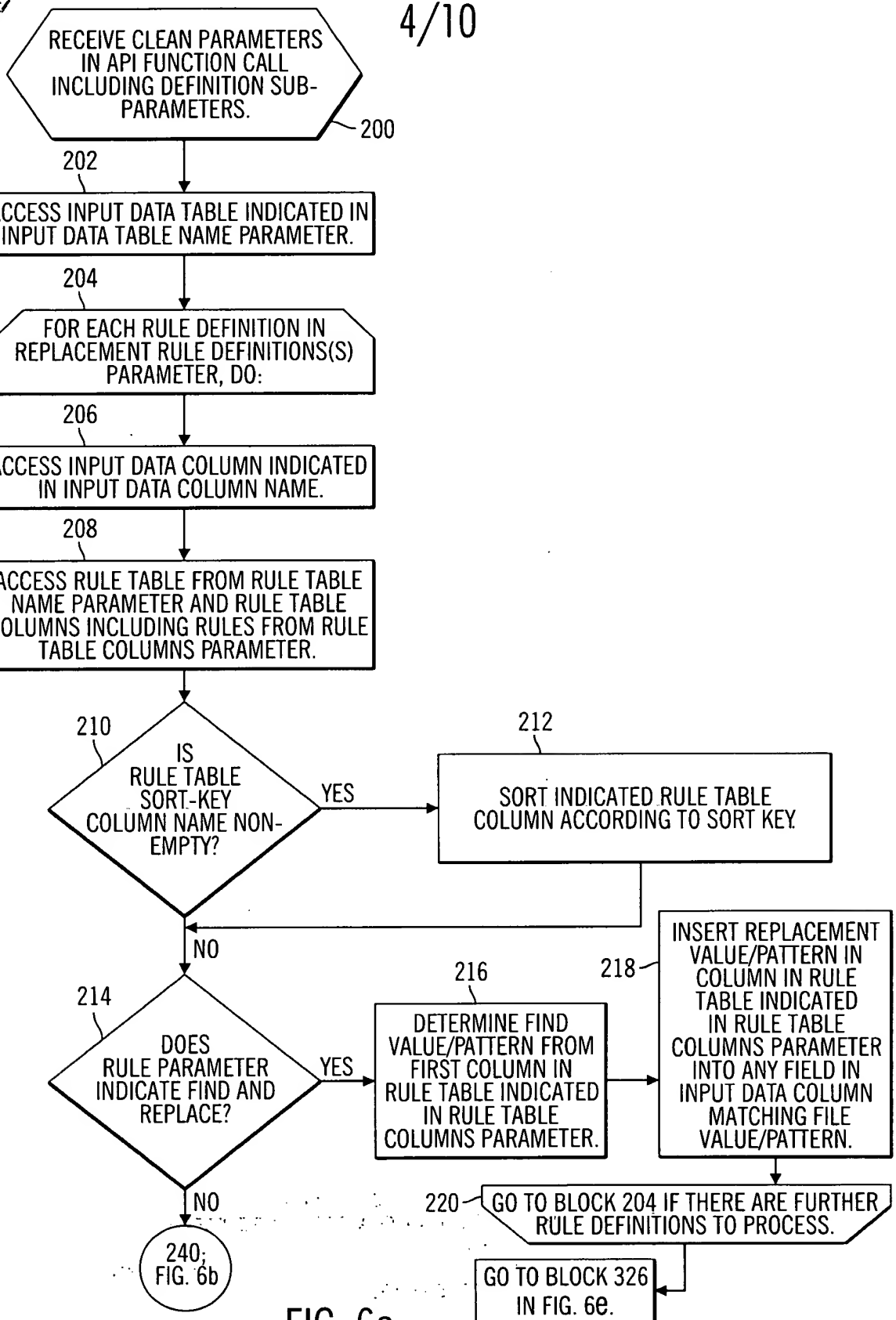

FIG. 6a

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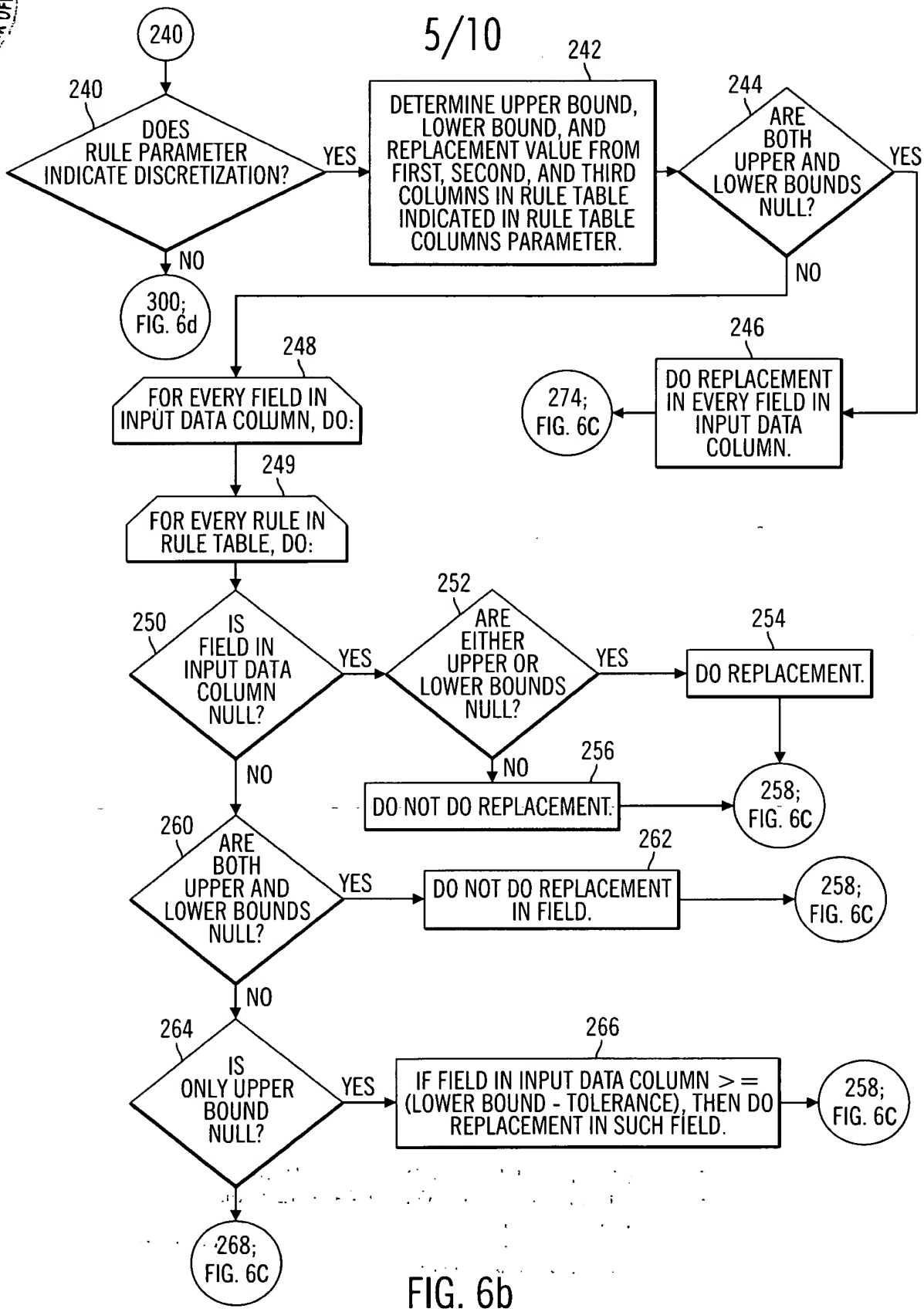

FIG. 6b

OIPE JC176
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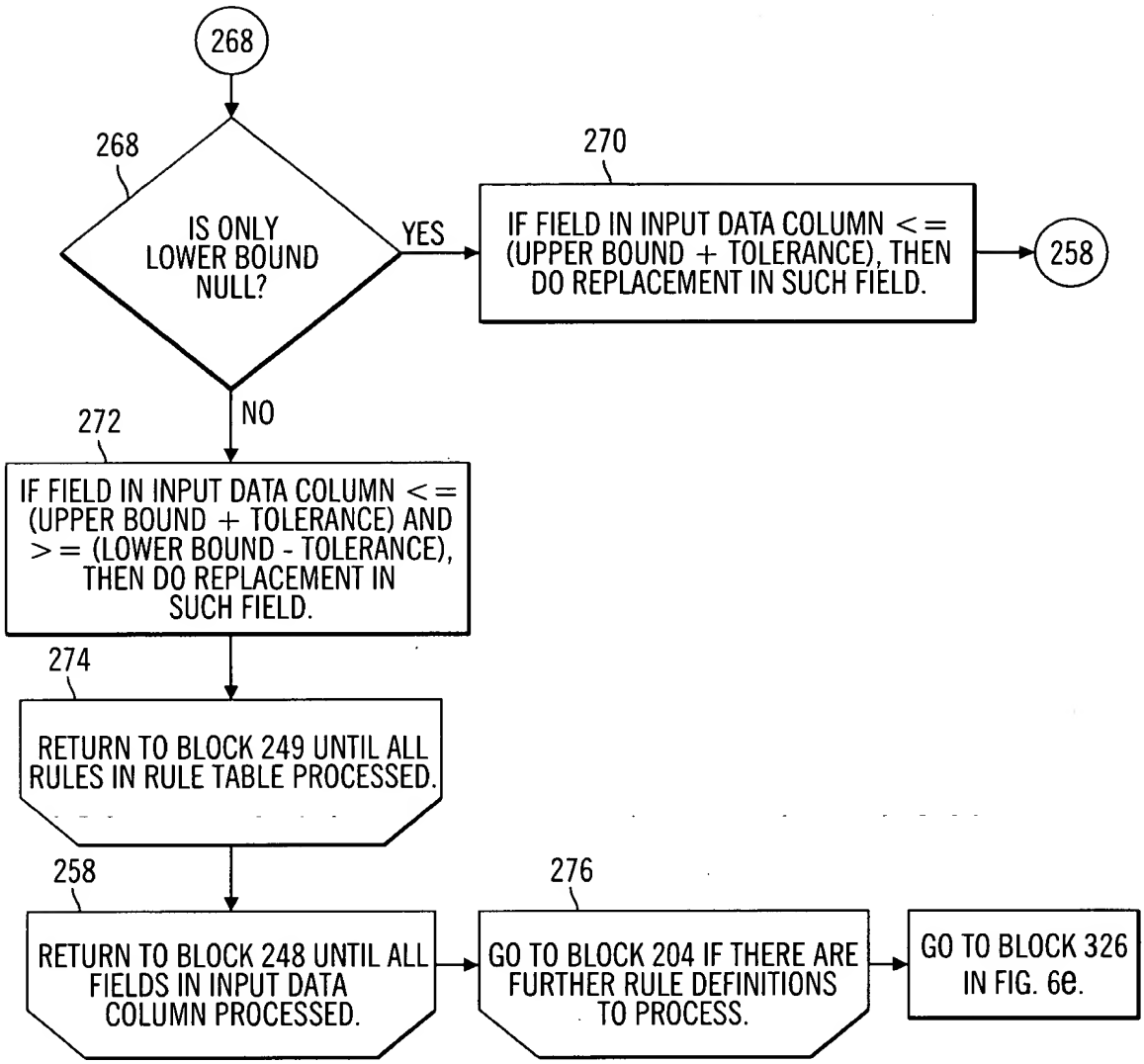

FIG. 6c

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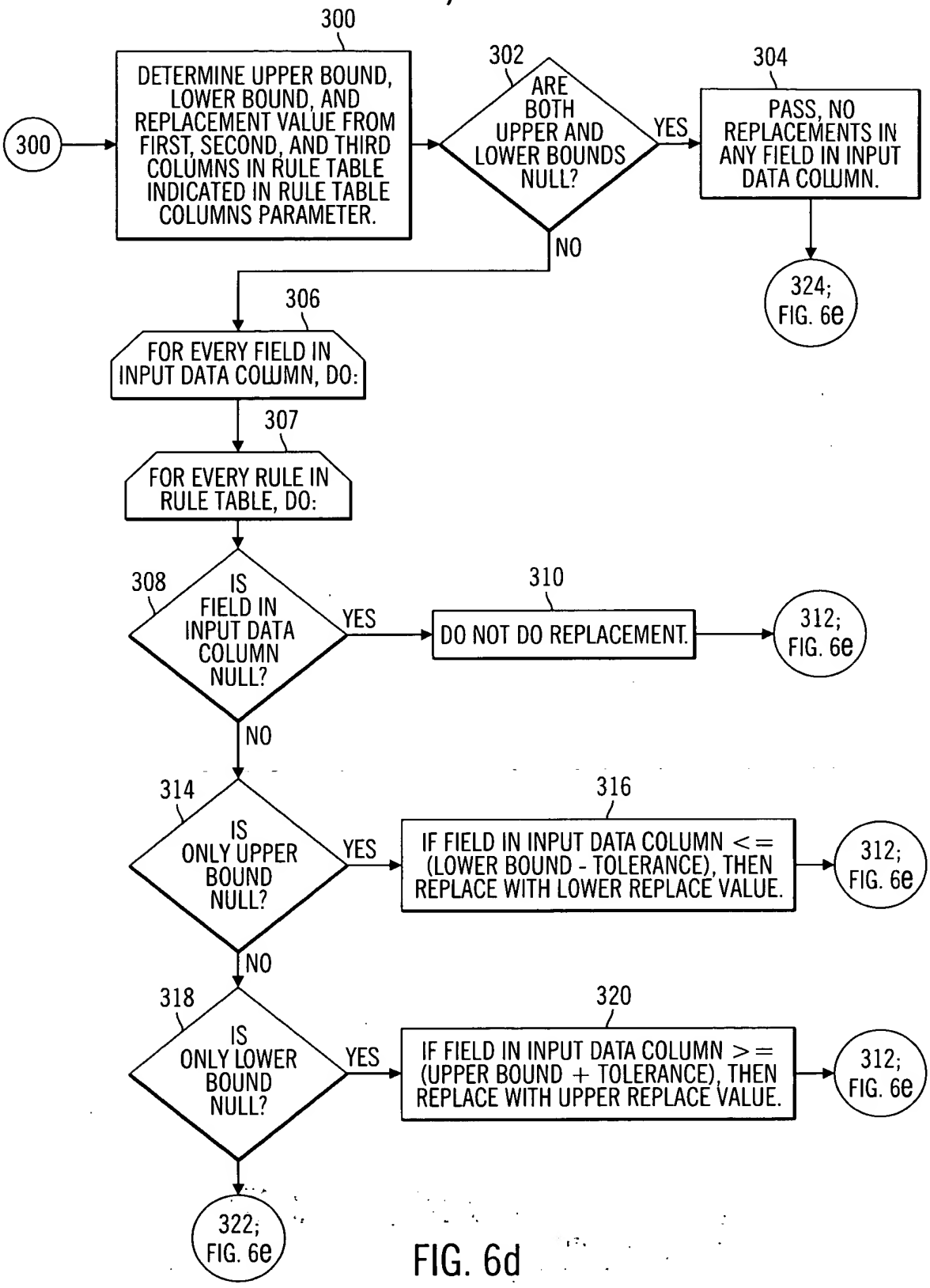

FIG. 6d

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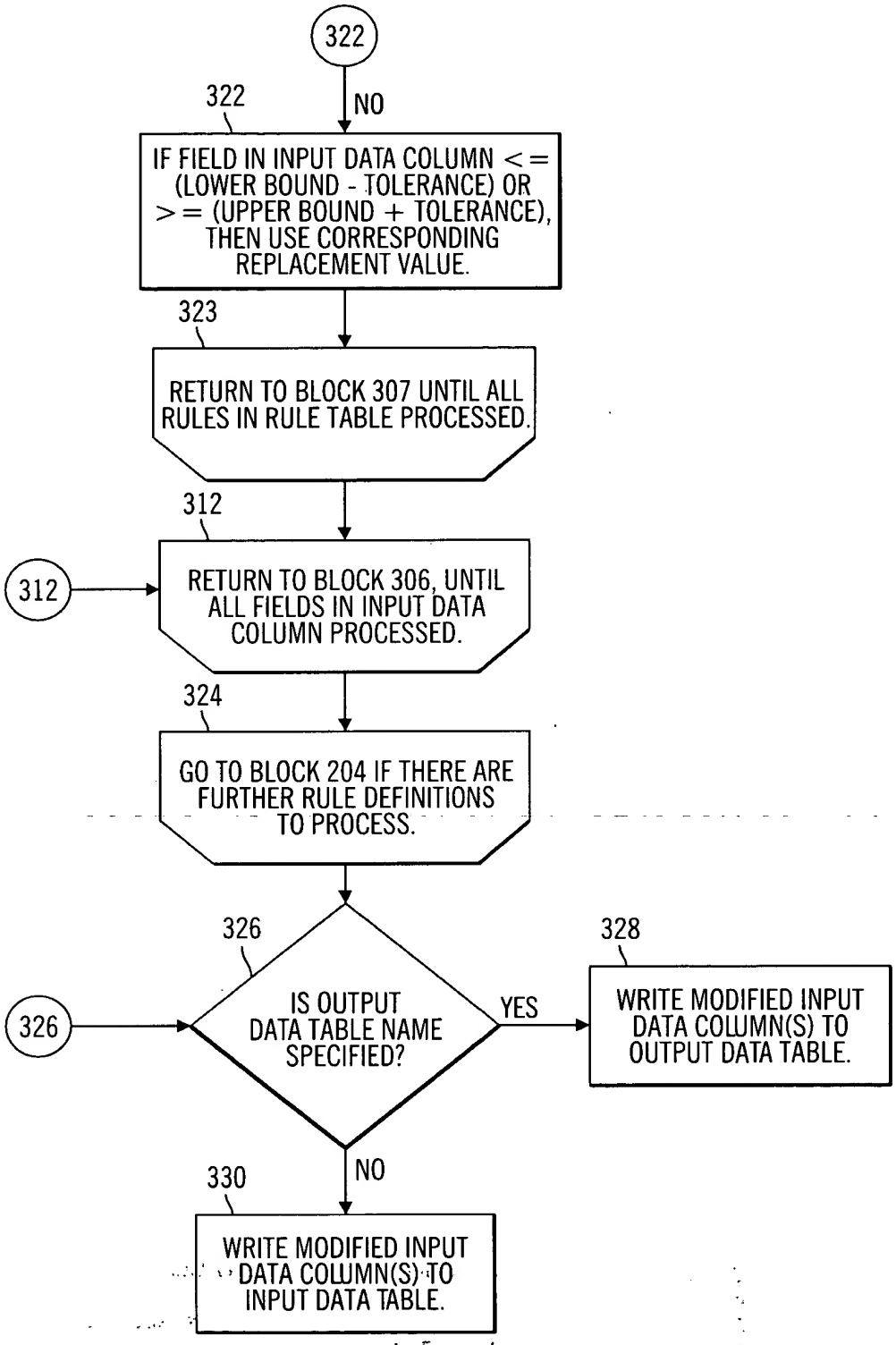

FIG. 6e

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CITY	PRODUCT NAME	PRODUCT CATEGORY	SALES ($)	UNIT SALES
VARCHAR (20)	VARCHAR (30)	VARCHAR (15)	DECIMAL (8,2)	INTEGER
11%LAX455	PICK AXE	IATE	5897.32	1100
SJC1298%SEA	SMALL SHOVEL	JXJ8972	456.98	43
%LAX6%SF094	TARP	HAU1245	893.12	422
%SJC34LAX45	FLARES	AX111	1200.45	1189
4515%SEA	NULL	AC183	333.9	23
3452%SJC34	""	MIS222	1818.4	15002

FIG. 7

FIND VALUE	REPLACE VALUE
VARCHAR (10)	VARCHAR (20)
%%LAX%	LOS ANGELES
%%DFW%	DALLAS/FORT WORTH
%%SJC%	SAN JOSE, CA
%%SFO%	SAN FRANCISCO
%%SEA%	SEATTLE/TACOMA

FIG. 8a

LOWER BOUND	LOWER REPLACEMENT	UPPER BOUND	UPPER REPLACEMENT
INTEGER	INTEGER	INTEGER	INTEGER
100	100	15000	NULL

FIG. 8b

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SORT COLUMN	LOWER BOUND	UPPER BOUND	REPLACE VALUE
INTEGER	VARCHAR (6)	VARCHAR (6)	VARCHAR (10)
1	I	IZZZZ	SPECIAL
2	HA	JZ	HARDWARE
3	LA	NZ	MISCEL
4	AA	BJ	WINTER STORM
5	RX	NULL	WINTER STORM

FIG. 8c

FIND VALUE	REPLACE VALUE
VARCHAR (5)	VARCHAR (10)
NULL	""

FIG. 8d